

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: December 21, 1999, 08:14:24 ; Search time 14.51 Seconds

(without alignments)
492.984 Million cell updates/sec

Title: US-09-193-881-23

Sequence: 1622

Scoring table: BLOSUM62

Database: 188963 seqs, 23686106 residues

Database: A_Geneseq_36.*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1271	78.4	251	1 R97978	Stannocalcin alpha
2	354	21.8	247	1 R84522	Stannocalcin from
3	351.5	21.7	261	1 R82968	Corpuscles of Stan
4	97	6.0	648	1 R22561	Mouse mutant c-ra
5	97	6.0	648	1 R22563	Mouse mutant c-ra
6	97	6.0	648	1 R22560	Mouse mutant c-ra
7	96.5	5.9	693	1 R22562	Mouse mutant c-ra
8	96.5	5.9	693	1 W15140	Mammalian cell cyc
9	96.5	5.9	1038	1 W19766	Mouse interleukin-
10	92	5.7	457	1 W73633	Human secreted pro
11	92	5.7	352	1 W73634	Human secreted pro
12	91	5.6	648	1 R22559	Mouse c-ra-1, Det
13	91	5.6	648	1 W17046	Mutant mouse c-ra
14	91	5.6	648	1 W17047	Mutant mouse c-ra
15	91	5.6	648	1 W17048	Mutant mouse c-ra
16	91	5.6	648	1 W17049	Mutant mouse c-ra
17	91	5.6	648	1 W17045	Mutant mouse c-ra
18	91	5.6	648	1 W30668	Mutant mouse c-ra
19	91	5.6	648	1 W30665	Mutant mouse c-ra
20	91	5.6	648	1 W30665	Mutant mouse c-ra
21	91	5.6	648	1 W30665	Mutant mouse c-ra
22	91	5.6	648	1 W30665	Mutant mouse c-ra
23	86	5.3	2189	1 R05222	Antigen GX5401F e
24	84.5	5.2	598	1 R33552	Sequence of splice
25	84.5	5.2	571	1 R39565	Human neuronal VDC
26	84.5	5.2	598	1 R72612	Human calcium chan
27	84.5	5.2	598	1 W63144	Human calcium chan
28	84	5.2	340	1 W17081	EPH family ligand
29	84	5.2	340	1 W46615	Human transmembran
30	84	5.2	1301	1 W92296	Human Raf-1 (XVI
31	83	5.1	648	1 R98215	Human Raf-1 kinase
32	83	5.1	648	1 W13107	Human Raf-1, Compl
33	83	5.1	648	1 W17044	NHERF2 ligand for
34	83	5.1	648	1 W17044	Human c-ra-1 prot
35	83	5.1	455	1 W31544	Human cytokine lter
36	83	5.1	455	1 W33698	AL-2-long (AL-21)
37	83	5.1	340	1 W33698	AL-2-short (AL-2s)
38	83	5.1	1206	1 W47030	Bovine N-proteins
39	83	5.1	396	1 W53868	Gravlin polypeptide
40	83	5.1	651	1 W53875	Gravlin polypeptide
41	83	5.1	1780	1 W53863	Human gravlin poly
42	83	5.1	453	1 W53867	Gravlin polypeptide
43	83	5.1	648	1 W62220	Raf-1 protein. Det

ALIGNMENTS

44 83 5.1 648 1 W30664 Human c-ra-1 prot
45 83 5.1 648 1 W95611 Homo sapiens GST-R

RESULT 1

R97978
ID R97978 standard; Protein; 251 AA.
AC R97978;
DE 13-NOV-1996 (first entry)
KW Stannocalcin alpha; heart disease; osteoporosis; hypocalcaemia;
KW renal disease; bone disease; Paget's disease; diagnosis;
KW identification.
OS Homo sapiens.
PN W09615147-A1;
PD 23-MAY-1996.
PE 10-NOV-1994; U13206.
PR 10-NOV-1994; WO-U13206.
PA (HUMA-) HUMAN GENOME SCI INC.
PI F. Fleischmann RD, Olsen H;
DR WPI: 96-259780/26.
DR N-PSDB; T18979.
PT Human stannocalcin-alpha DNA and protein - useful for treatment and
PT diagnosis of electrolyte disorders leading to renal, heart and bone
PT diseases esp. osteoporosis and Paget's disease
PS Claim 1; Figure 1; 54pp; English.
CC The stannocalcin alpha polypeptide may be used for the treatment of
CC electrolyte disorders which lead to renal, bone and heart diseases,
CC especially osteoporosis and Paget's disease. Antagonists to the
CC polypeptide may be used therapeutically to treat hypocalcaemia and
CC osteoporosis. The stannocalcin alpha coding sequence may be used
CC in the detection of disease or to detect the susceptibility of
CC disease related to a mutated stannocalcin alpha coding sequence.
SQ Sequence 251 AA;

Query Match 78.4%; Score 1271; DB 1; Length 251;
Best Local Similarity 94.9%; Pred. No. 3.3e-118;
Matches 240; Conservative 2; Mismatches 9; Indels 2; Gaps 1;

QY 1 MCAERLQGFMTALVATPDPAAGTDATNPFGPDRSSQKGRSLQNTAEIOHCLVNA 60
DB 1 MCAERLQGFMTALVATPDPAAGTDATNPFGPDRSSQKGRSLQNTAEIOHCLVNA 60
QY 61 GDVCGVFECFENNCEIRGLGICMTFLHNAKFPDAQKSFIDALKCAHAALRHFFGC 120
DB 61 GDVCGVFECFENNCEIRGLGICMTFLHNAKFPDAQKSFIDALKCAHAALRHFFGC 120
QY 121 ISKRCPAIREMVSQIQRECYLKHDLCAAAQENTRIYEMIFKDLLEHYVDLVNLLT 180
DB 121 ISKRCPAIREMVSQIQRECYLKHDLCAAAQENTRIYEMIFKDLLEHYVDLVNLLT 180
QY 181 CSEEVKEATHSVQVQCCQNNGLSLSISFCTSAIQKPPAPPEPOVDRTLSAHHG 240
DB 181 CSEEVKEATHSVQVQCCQNNGLSLSISFCTSAIQKPPAPPEPOVDRTLSAHHG 240
QY 241 EAGHILPESSRE 253
DB 241 --GRTPSPRAQE 251
RESULT 2
R84522 ID R84522 standard; Protein; 247 AA.
AC R84522;
DE 19-APR-1996 (first entry)
KW Stannocalcin from Corpuscles of Stannius;
KW stannocalcin; Corpuscles of Stannius; hypocalcaemia; hypercalcaemia;
KW electrolyte disorder; osteoporosis; Paget's disease; treatment.
OS Homo sapiens.